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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/342,235	06.	29 1999	YASUHIKO TAKEMURA	0756-1980ELE	756-1980ELE 6257	
31780	7590	05 20 2003				
ERIC ROBI	NSON		EXAMINER			
PMB 955 21010 SOUT			SEFER, AHMED N			
POTOMAC I	ALLS, VA	. 20165		ART UNIT	PAPER NUMBER	
				2826		

DATE MAILED: 05/20/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

				ML
		Application No.	Applicant(s)	1,10-
		09/342,235 TAKEMURA, YASU		
	Office Action Summary	Examiner	Art Unit	
		A. Sefer	2826	
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet wi	in the correspondence address	
A SH THE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It period for reply specified above is less than thirty (30) days, a replayed for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statuting the process of the period by the Office later than three months after the mailing date of the process of the period for reply will. See 37 CFR 1.704(b).	136(a). In no event, however, may a re iy within the statutory minimum of thirt will apply and will expire SIX (6) MON e, cause the application to become AB	eply be timely filed  (30) days will be considered timely.  FHS from the mailing date of this communical  ANDONED (35 U S C § 133)	tion.
1)[	Responsive to communication(s) filed on 14	March 2003 .		
2a)[∵	This action is <b>FINAL</b> . 2b) The	nis action is non-final.		
3)	Since this application is in condition for allow closed in accordance with the practice under			s is
•	ion of Claims			
اــا(4	Claim(s) 6-11 and 13-25 is/are pending in the			
- 5	4a) Of the above claim(s) is/are withdra	iwn from consideration.		
	Claim(s) <u>6-11</u> is/are allowed.			
	Claim(s) <u>13-25</u> is/are rejected			
	Claim(s) is/are objected to.			
	Claim(s) are subject to restriction and/o ion Papers	or election requirement.		
	The specification is objected to by the Examine	ar .		
, —	The drawing(s) filed on is/are: a) ☐ acce		ne Examiner	
10)	Applicant may not request that any objection to the			
11)	The proposed drawing correction filed on		isapproved by the Examiner.	
,	If approved, corrected drawings are required in re		, .	
12)	The oath or declaration is objected to by the E	xaminer.		
Priority	under 35 U.S.C. §§ 119 and 120			
13)	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)	☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority documen	ts have been received.		
	2. Certified copies of the priority documen	its have been received in A	pplication No	
* ;	3. Copies of the certified copies of the price application from the International B See the attached detailed Office action for a lis	ureau (PCT Rule 17.2(a)).		
14) 🔲 .	Acknowledgment is made of a claim for domes	tic priority under 35 U.S.C.	§ 119(e) (to a provisional applic	ation).
	a) $\square$ The translation of the foreign language pr Acknowledgment is made of a claim for domes			
Attachme	nt(s)			
2) Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) informal Patent Application (PTO-152)	_
I.S. Patent and	Trademark Office			

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#### **DETAILED ACTION**

### Response to Amendment

1. The amendment filed on 3/4/03 has been entered; no new claims have been added.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 13-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tskjikawa et al. US Patent No. 5,051,570 in view of Stewart US Patent No. 5,302,966.

Tskjikawa et al disclose (see figs. 4, 6 and 9, col. 6, lines 30-33 and col. 8, lines 3-15) col. 12, lines 30-40) a semiconductor device comprising a substrate 28 having an insulating surface; at least first and second semiconductor islands 14/114 and 15/115 comprising polysilicon (as in claims 14, 17 and 21) formed directly on said insulating surface wherein each of the semiconductor islands has a channel region and a pair of impurity regions (unnumbered); a first and a second gate insulating film 134, 135 formed over said semiconductor island, respectively: at least first and second gate electrodes 112, 113 formed over said first and second semiconductor islands respectively with said first and second gate insulating films interposed therebetween: an interlayer insulating film 121 formed over a wiring (as in claims 16 and 19): a smoothing film 123 formed over a wiring (as in claims 20 and 23); a pixel electrode 124 formed over said interlayer insulating film (as in claim 16) or a pixel electrode formed over said

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smoothing film (as in claim 20) and electrically connected to one of the pair of the impurity regions (through electrode 118) of the second semiconductor island, but do not specifically disclose a wiring connecting one of the impurity regions of the NTFT first semiconductor island with the second gate electrode of PTFT second semiconductor island.

Stewart discloses in figs. 2, 3, 5 and 6 a wiring 332 connecting one of the impurity regions 226/330 of the NTFT first semiconductor island with the second gate electrode 206/334 of PTFT second semiconductor island.

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to use a wiring connecting an impurity regions of one TFT with a gate electrode of another TFT, since that would enable one transistor to drive another transistor such that the data signal turns the other transistor ON thereby avoiding the formation of an extra scanning line.

As to claims 15, 18 and 22, Stewart discloses a data line 328 electrically connected to one impurity region of an NTFT.

As to claims 24 and 25, Tskjikawa et al disclose a voltage supply line 116 electrically connected to an impurity region of a semiconductor island.

#### Allowable Subject Matter

- 4. Claims 6-11 are allowed.
- 5. The following is a statement of reasons for the indication of allowable subject matter: The prior art fails to disclose the device structure as recited in claims 6, 9, 10 and 11.

  Specifically, the prior art neither teaches nor makes obvious the claimed device structures.

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#### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Yamamoto et al. US reference 5,426,526 disclose (see fig. 11) an LCD device having a plurality of transistors including a gate electrode of transistor Q1 connected to a drain of transistor Q2.
- b. Unagami et al. US reference 4,528,480 disclose (see figs. 2 and 3) an AC drive EL device.
- 7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. Sefer whose telephone number is (703) 605-1227.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (703) 308-6601.

ANS May 9, 2003

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